EWT(d)/EWT(m)/EWP(w)/EWP(v)/T-2/EWP(k)/EWP(h)/EWP(1)    IJP(c)    WW/EM

L 04171-67

ACC NR:    AP6025687                    SOURCE CODE:   UR/0380/66/000/003/0069/0076

AUTHOR: Dveres, M. N. (Moscow); Prigorovskiy, N. I. (Moscow)

ORG:  none

TITLE: Calculation of the structural parts of axisymmetric shells with the use of machine calculating techniques

SOURCE: Mashinovedeniye, no. 3, 1966, 69-76

TOPIC TAGS:  shell design, computer application, mechanical engineering

ABSTRACT:  In machine construction, wide use is made of constructions in the form of shells of rotation, consisting of a combination of cylindrical, spherical, and conical collars, end flanges, and other axisymmetric elements.  Figure 1 illustrates some typical shapes.

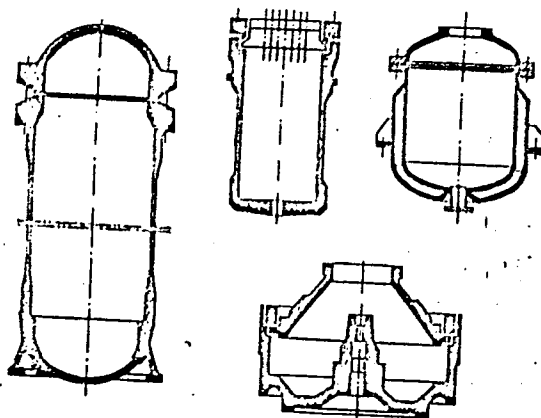Card  1/2

L 04171-67
ACC NR: AP6025687



Figure 1.

The article develops a system of matrix mathematics which is suitable for computer solution to determine the characteristics of such axisymmetric shapes. A final table gives values of stress components (in kg/cm$^2$) due to elongation and pressure obtained by calculation using the method advanced, and by actual measurements made on plastic models. Orig. art. has: 10 formulas, 6 figures and 1 table.

SUB CODE: 13, 20/ SUBM DATE: 15Dec65/ ORIG REF: 003

Card 2/2 LC

ACC NR: AT7002113     (A)          SOURCE CODE:   UR/0000/66/000/000/0274/0286

AUTHOR: Vardanyan, G. S.; Prigorovskiy, N. I.

ORG: none

TITLE: Methods for determination of thermoelastic stresses

SOURCE: Vsesoyuznaya konferentsiya po polyarizatsionno-opticheskomu metodu issledo-vaniya napryazheniy. 5th, Leningrad, 1964. Polyarizatsionno-opticheskiy metod issledo-vaniya napryazheniy (Polarizing-optical method of investigating stresses); trudy kon-ferentsii. Leningrad, Izd-vo Leningr. univ., 1966, 274-286

TOPIC TAGS: stress, stress analysis, plastic coating, optic method, polarization, elastic deformation

ABSTRACT: The authors present a comprehensive review of techniques for stress inves-tigation using simulated conditions on models made of optically active materials. Two main directions have developed: generation in a model of stresses, proportional to the actual stresses, through application of an appropriate temperature field (method of heated and cooled models); and generation in a model of stresses through mechanical introduction of deformations corresponding to a given temperature field (method of un-heated models). Both methods, which are currently in a state of evolution, lend them-selves to solution of relatively uncomplicated problems. To apply the method of heat-

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ACC NR:   AT7002113

ed and cooled models, a temperature field similar to the actual field is created in a
geometrically congruent model.  Care must be taken to ensure the congruency of the
thermal stress fields between the actual object and the model.  If these conditions
are satisfied, the actual stresses can be computed from the known congruency relations.
Various techniques for generation of temperature fields in the models are available:
electrical heating; cooling using liquid nitrogen, oxygen, and hydrogen; imersion in-
to a heated oil bath.  Polariscopic observation of surface changes due to photoelasti-
city phenomena in the model materials is used to locate and measure the stresses.
Three techniques are known for application of the unheated model method:  1) elastic
dislocation; 2) application of fictitious loads, after Maysel; 3) "freezing" and "un-
freezing".  The first technique was applied to the analysis of thermoelastic stresses
of flat bodies with multiple connections, located in a stationary temperature field.
This technique is based on a theorem by Muskhelishvili which relates the thermal
stresses with dislocations.  The technique of fictitious loads is based on the reci-
procity theorem, and consists of application of a single fictitious force at a point
where the thermal stresses are to be determined, and the subsequent measurement of
normal stresses and corresponding dislocations at all points of interest in the part
being analyzed.  Finally, the "freezing" and "unfreezing" technique is realized in the
following manner:  a model congruent to the actual part is constructed by monolithic
bonding of separate parts in which deformations were generated and "frozen" prior to
bonding.  These deformations correspond to the "natural" deformations which would oc-
cur in the actual parts due to the temperature changes.  The model is then heated,

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ACC NR:   AT7002113

and the individual deformations are therefore released.  A redistribution of deforma-
tions and stresses takes place which are again "frozen" when the model is returned to
room temperature.  These stresses, which correspond to the actual stresses, are mea-
sured using polariscopy.  If the elastic properties of the actual material are tem-
perature dependent, the problem of simulation is much more complex.  For the case
when these properties are temperature independent, V. M. Maysel has proved the fol-
lowing three theorems:  1. In a three-dimensional free body with either single or
multiple bonds, or in a body fixed on supports, the temperature displacement and de-
formation in any point of this body does not depend on the modulus of elasticity $E$,
but generally depends on the Poisson coefficient $\mu$; while the thermal stresses are
proportional to $E$ and depend on $\mu$.  2. In a thin free body with single or multiple
bonds, located in an arbitrary flat, nonstationary temperature field, the thermal
stresses in the extreme points are independent of $\mu$ and proportional to $E$, while the
thermal deformation of the extreme elements is independent of $E$ and $\mu$.  3. In a free
body with single or multiple bonds under conditions of flat deformation under the in-
fluence of a flat generally nonstationary temperature field, the thermal stresses in
the extreme points are proportional to the magnitudes of $E$ and $1/(1-\mu)$, while the
thermal deformation of the extreme elements is independent of $E$ and proportional to
the magnitude of $(1-\mu)$.  Several examples are used to illustrate the various methods.
Orig. art. has:  4 figures, 3 tables, 4 formulas.

SUB CODE: 20,11/    SUBM DATE: 14Jun66/    ORIG REF: 013/    OTH REF: 014

Card 3/3

L 11234-67

ACC NR:    AR6020077                      SOURCE CODE:  UR/0124/66/000/001/V088/V089

AUTHOR:  Bokshteyn, M. F.; Prigorovskiy, N. I.

TITLE:  Development of a wide-field polariscope

SOURCE:  Ref zh. Mekhanika, Abs. 1V718

REF SOURCE:  Sb. Polyarizats.-optich. metod issled. napryazheniy, M., Nauka, 1965,
5-13

TOPIC TAGS:  polarimeter, stress analysis, polarizing filter, model

ABSTRACT:  Data are given on a new polariscope for studying stresses on the basis of
two- and three-dimensional transparent models.  The instrument has a field diameter
of 250 mm and interchangeable light sources (a mercury tube, motion picture projection
lamp and spectral tube).  The light sources are mounted on a rotating turret and
provision is made for independent adjustment of the individual lamps is three mutually
perpendicular directions.  The optical system of the polariscope projects a 1.8× image
on the screen of the instrument, and a 4× image on a wall screen.  The load unit may
be used for both vertical and horizontal loading of the model to 2 tons.  The polari-
scope is equipped with a 24×30 cm camera with a mirror unit.  The system contains light
splitters for multiple passage of a beam through the model or for producing a band
pattern of higher contrast using the multiple-interference method, an attachment for

xCard 1/2

ACC NR:    AR6020077

doubling interference orders in studying thin sections and models made from low-modulus materials, and a compensator tube for measuring path difference at points in the model or sections by the compensation method. The tube of a polarization microscope is used in this capacity to permit utilization of the compensator, drawing equipment and a photomicrographic adapter. The compensator tube may be rotated about its optical axis by the control shaft of a selsyn with readout of the angles of turn on a dial with an accuracy of 0.1°. The polaroids in the polarizer and analyzer may be rotated from a remote control panel. One or both polaroids in the analyzer and polarizer are rotated by receiver selsyns through rotation of a control selsyn on the panel. Rotation of the polaroid in the polarizer is synchronized by selsyns with rotation of the compensator tube. V. D. Kopytov. [Translation of abstract]

SUB CODE:    11, 20

Card  2/2

L 36293-66    EWT(d)'/EWP(m)/EWP(k)/EWP(w)    IJP(c)    EM

ACC NR: AR6004035                         SOURCE CODE: UR/0277/65/000/009/0096/0096

AUTHORS: Bugayenko, S. Ye.; Prigorovskiy, N. I.; Filimonova, Ye. N.; Khurshudov, G. Kh.

49

TITLE: Stress in the connecting zone between the supporting cone and a vessel B subjected to internal pressure

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin. Gidroprivod, Abs. 9.48.685

REF: SOURCE: Sb. Metody issled. napryazheniy, M., Nauka, 1965, 65-70

TOPIC TAGS: *INTERNAL STRESS, CONTACT STRESS, CONIC BODY,* stress analysis, optic material / ONS optic material, ED 6-M optic material

ABSTRACT: The method and results of an investigation of the stressed condition in the connecting zone between the supporting cone and the vessel subjected to internal pressure are presented. The measurements were obtained from a model made of an optically insensitive material ONS with an insert of a plate made of an optically sensitive material ED 6-M cemented in the axial plane of the model. Formulas for determining meridional and annular normal stresses are given. 3 illustrations. Bibliography of 3 titles. /Translation of abstract/

SUB CODE: 13,20

Card 1/1                                            UDC: 621.8:539.001.5

BOGDYL', P.T.; LARIONOV, V.V.; PRIGOROVSKIY, N.I.

Method for studying elastoplastic deformations of materials under
repeatedly varying loads. Zav. lab. 31 no.9:1116-1119 '65.
(MIRA 18:10)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut mashinovedeniya.

PRIGOROVSKIY, N.I., prof., doktor tekhn. nauk, otv. red.

[Polarization-optical method for studying stresses;
problems of strength in machine construction] Poliari-
zatsionno-opticheskii metod issledovaniia napriazhenii;
problemy prochnosti v mashinostroenii. Moskva, Nauka,
1965.  124 p.                          (MIRA 18:7)

1. Moscow. Institut mashinovedeniya.

L 63861-65   EWT(m)/EWP(w)/EPF(c)/EWA(d)/EWP(z)/EWP(v)/EWP(j)/T/EWP(t)/EWP(b)
MJW/JD/WW/EM/CS/RM
ACCESSION NR: AT5017736                          UR/0000/65/000/000/0003/0016

AUTHORS: Vasil'yev, A. A.; Daychik, M. L.; Prigorovskiy, N. I.

TITLE: Strain gages for operation in temperature and radiation fields

SOURCE: AN SSSR. Institut mashinovedeniya. Metody issledovaniya napryazheniy;
problemy prochnosti v mashinostroyenii (Methods of investigating stresses;
problems of strength in machinery manufacture). Kiev, Izd-vo Nauka, 1965, 3-16

TOPIC TAGS: strain gage, strain gage property, gage resistance, temperature
coefficient, high temperature strain gage/ 1Kh18N9T steel, V 56 organosilicon glue

ABSTRACT: The sensitivity, temperature coefficient, and resistance as a function
of temperature (20-300C) were investigated for strain gages made of 30-micron
diameter constantan wire bonded with organosilicon glue V-56 to 0.15-mm thick
1Kh18N9T steel foil according to the procedures described in (Napryazheniya i
deformatsii v detalyakh i uzlakh mashin. Pod red. N. I. Prigorovskogo, Mashgiz,
1961). For a tested group of 1800 gages, the gage factor was found to be 1.89 $\pm$
2% over the temperature range 20-300C (114-120 ohm nominal resistance). It was
found that the temperature coefficient (resistance) and nominal resistance were
nonlinearly and nonuniquely temperature dependent. Curves of the temperature-caused

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L 63861-65

ACCESSION NR: AT5017736

apparent strains were obtained for unmounted and welded (to a test bar) strain gages. It was also found that increased curvature of the mounting surface increased the temperature effects. Twenty-four hour radiation tests showed that the strain gage characteristics were unchanged for neutron radiation levels of up to $2 \cdot 10^{19} n/cm^2$ (integral intensity) (N. N. Aristarkhov et al. Tenzodatchiki dlya raboty v usloviyakh neytronnogo oblucheniya. - Sb. "Metody i pribory tenzometrii," vyp. 1. GOSINTI, 1964). Calibration of gages prior to use permits matching of gage properties for temperature compensation. Orig. art. has: 9 figures and 6 tables.

ASSOCIATION: none

SUBMITTED: 00                ENCL: 00                SUB CODE: IE, TD

NO REF SOV: 005             OTHER: 001

Card 2/2

L C0900-66    EWT(d)/EWT(m)/EWP(w)/EWA(d)/EWP(v)/EWP(j)/EWP(k)/EWA(h)    WW/EM/GS/RM

ACCESSION NR: AT5017738                                    UR/0000/65/000/000/0065/0070

AUTHORS: Bugayenko, S. Ye.; Prigorovskiy, N. I.; Filimonova, Ye. N.; Khurshudov,
G. Kh.

TITLE:  Stresses in the connecting region between a supporting cone and an
internally pressurized vessel

SOURCE: AN SSSR. Institut mashinovedeniya. Metody issledovaniya napryazheniy;
problemy prochnosti v mashinostroyenii (Methods of investigating stresses; problems
of strength in machinery manufacture). Kiev, Izd-vo Nauka, 1965, 65-70

TOPIC TAGS:  stress concentration, pressure vessel, shell stress, strain measurement,
interference pattern

ABSTRACT:  To study the stress concentrations in the connecting region between a
supporting cone and an internally loaded vessel, a model (see Fig. 1 on the
Enclosure) was built of organic glass (to the right of section AA in Fig. 1; E =
2.9 x $10^4$; $\mu$ = 0.36) and optically insensitive material (ONS; E = 3.1 x $10^4$; $\mu$ =
0.37) with a sheet of optically sensitive material ED6-M (E = 3.2 x $10^4$, $\mu$ = 0.37)
bonded into the critical section.  The model was also instrumented with strain
gages (as shown in Fig. 1) and could be loaded either by internal pressure p or by

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ACCESSION NR: AT5017738

a radial load q. By shining polarized light through the ED6-M, the order of the interference patterns m would give the difference between the principal stresses as

$$\sigma_1 - \sigma_2 = \frac{\sigma_0^{(1,0)}}{t_{mod}} m, \quad \text{(where } \sigma_0^{(1,0)} = \text{optical constant; } t_{mod} = \text{thickness of ED6-M).}$$

For an internally pressurized vessel $\sigma_2$ on the outside of the vessel would be 0 and on the inside -p. The strain gages could be used for measuring the external strains (or stresses) which are required to calibrate the interference patterns. Several equations are derived for the meridian and hoop stresses as a function of strain gage and material parameters, and a sample distribution of these stresses is given (see Fig. 2 on the Enclosure) without specifying the magnitudes of the loads. Orig. art. has: 3 figures and 7 formulas.

ASSOCIATION: none

SUBMITTED: 00                    ENCL: 02                    SUB CODE: IE

NO REF SOV: 003                  OTHER: 000

Card 2/4 DP

100900-66
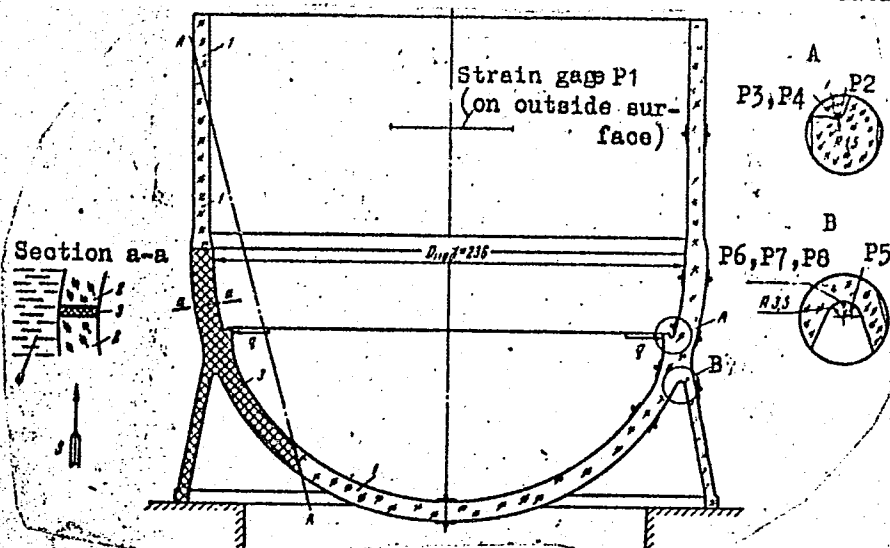ACCESSION NR: AT5017738                                    ENCLOSURE: 01

Strain gage P1
(on outside sur-
face)

A        P2
P3,P4

B
Section a-a                    $D_{in}1^{o}236$        P6,P7,P8    P5

Fig. 1.  Model configuration: AA-bonded section; S-light
direction; 1- glass; 2- ONS; 3- ED6-M; 4- immersion; P1,
P2, etc. - strain gages
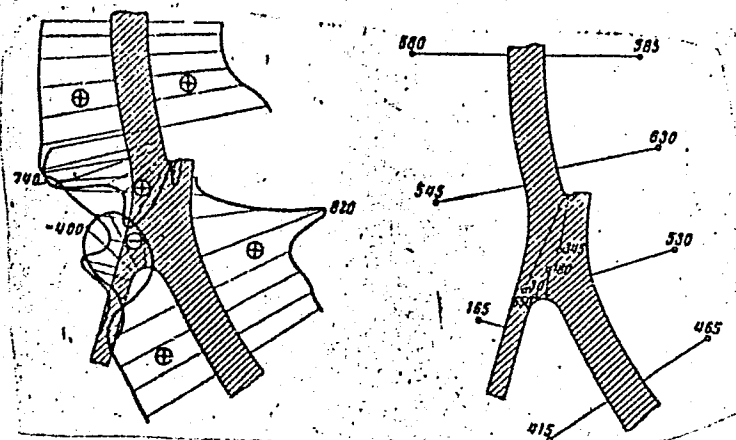
Card 3/4

L 00900-66

Fig. 2.  Total meridian (left) and hoop (right) stresses
due to internal pressure and radial loading

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L00899-66   EWT(m)/EWP(w)   EM/GS

ACCESSION NR: AT5017739                                UR/0000/65/000/000/0105/0115

AUTHORS: Mikhalev, Yu. K.; Prigorovskiy, N. I.

TITLE: Strain gage investigation of stresses in bolts of a pressure vessel operating under pressure at different heat load removal rates

SOURCE: AN SSSR. Institut mashinovedeniya. Metody issledovaniya napryazheniy; problemy prochnosti v mashinostroyenii (Methods of investigating stresses; problems of strength in machinery manufacture). Kiev, Izd-vo Nauka, 1965, 105-115

TOPIC TAGS: pressure vessel, boiler seal, bolt stress, thermal stress

ABSTRACT: Tensile and bending stresses in the bolts of a pressure vessel seal were experimentally investigated with strain gages placed as shown in Fig. 1 on the Enclosure. The nuts were tightened to give a nominal axial stress in the 60 hollow bolts of $\sigma = \dfrac{4P}{\pi(D^2 - d^2)} = 1740$ kg/cm$^2$ (where D = 11.8 cm and d = 2.0 cm are outside and inside diameters of bolt section; in $P = \dfrac{1.25 \cdot Fp}{60} = 1.84 \cdot 10^5$ kg; p = working pressure = 100 kg/cm$^2$; F = pressure area of lid in cm$^2$). The total normal stresses at the lower and upper sections of the bolts ($\sigma_H$ and $\sigma_b$ respectively) were

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L00399-66

ACCESSION NR: AT5017739

measured with and without a monitoring system which provided additional heating of the pressure ring at static conditions and at transient conditions of heating and cooling at rates of 30, 60, and 90C/hour. It was found that the monitoring system decreased the maximum stresses by 20% (see Fig. 2 on the Enclosure). The stresses at the lower part of the clamping ring changed sign from $\sigma = 260$ to $\sigma = -1550$ kg/cm$^2$ after 4 hours at a cooling rate of 90C/hr, while the stresses at the top of the ring increased by a factor of approximately two. It was found that the maximum axial stresses, bending stresses (upper and lower parts of bolt), and stresses in the upper and lower parts of the clamping ring due to the heat loads were 720, $\pm$110, $\pm$2030, 460, and 120 kg/cm$^2$ respectively for static operation and 1260, $\pm$630, $\pm$2530, 580, -1660 kg/cm$^2$ for transient operation respectively. A short analysis of the bolt deformation is also presented. Workers of the Institute of Machine Science and other interested organizations participated in the work. Orig. art. has: 8 figures, 3 tables, and 8 formulas.

ASSOCIATION:  none
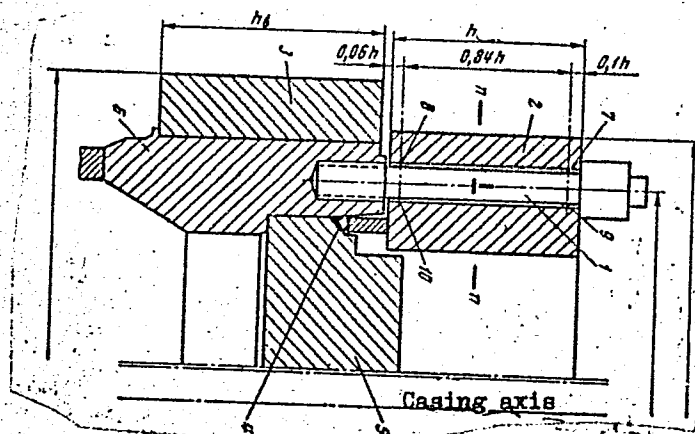
SUBMITTED:  00

NO REF SOV:  002          ENCL:  03
Card 2/5                 OTHER:  000                SUB CODE:  IE

Casing axis

To Card 4/5
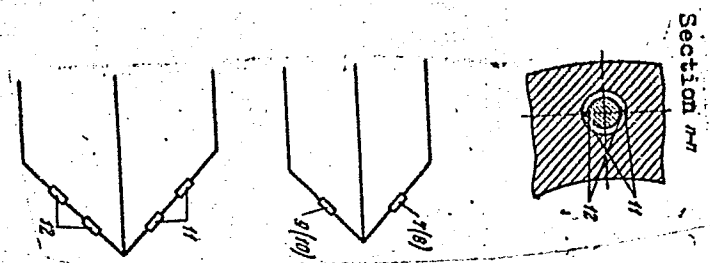
Card 3/5

From Card 3/5



Fig. 1.  Seal configuration: 1- bolt; 2- pressure ring; 3- clamping ring; 4- wedge-shaped insert; 5- lid; 6- flange; 7,8,9,10- bending stress measuring strain gages; 11 and 12- axial stress strain gages
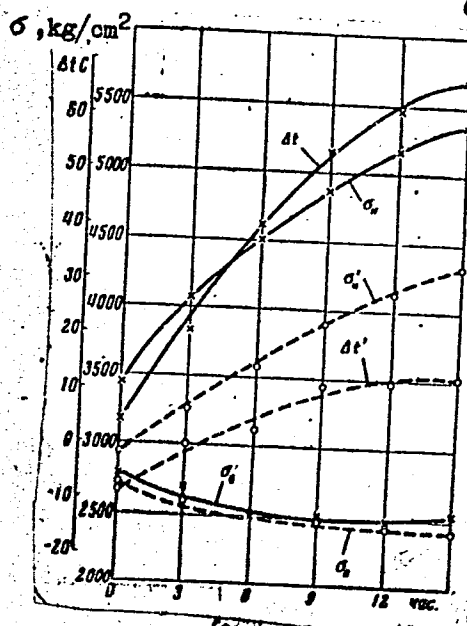
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L00899-66
ACCESSION NR: AT5017739

ENCLOSURE: 03

Fig. 2. Transient total normal stresses in bolts: __ with monitoring system; ------without; t = temperature difference between upper flange and upper pressure ring surfaces

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L 1317-66   EWT(d)/EWT(m)/EWP(w)/EWA(d)/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c)  MJW/
ACCESSION NR: AP5022173   JD/HW/EM
UR/0032/65/031/009/1116/1119
620.178.32

AUTHOR: Bogdyl', P. T.; Larionov, V. V.; Prigorovskiy, N. I.

TITLE: Method of studying elastic-plastic strains under repeated variable loads

SOURCE: Zavodskaya laboratoriya, v. 31, no. 9, 1965, 1116-1119

TOPIC TAGS: stress distribution, plastic deformation, elastic deformation

ABSTRACT: The article describes the application of the method of optically sen-
sitive coatings to the study of elastic-plastic strains under repeated variable
loads for local strains of up to 2% and numbers of cycles of the order of 1 x 10³.
Methods of gluing the optically sensitive layer to the surface of the test piece
were studied and various glues were tested in order to produce the required ad-
hesion. A V96 alloy and an optically sensitive layer consisting of ED5M (epoxy
resin ED5 with additives) were chosen for the study. It is found that in the range
of the highest strains (1.7%), the values of the optical sensitivity of the layer
to stresses and strains remain practically constant when the cycles are repeated
and the load level is changed. The redistribution of strains and stresses in the
zone of an aperture in the center of a plate of V96 alloy was studied under

Card   1/2

L 1317-66

ACCESSION NR:  AP5022173                                                    /

cyclic stretching and compression as a function of the number of cycles and load
level.  Failure occurred when the actual stresses reached the endurance curve
of the alloy.  Orig. art. has:  3 figures, 1 table, and 1 formula.

ASSOCIATION:  Gosudarstvennyy nauchno-issledovatel'skiy institut mashinovedeniya
(State Scientific Research Institute of Mechanical Engineering)

SUBMITTED:  00                         ENCL:  00                    SUB CODE:  AS.

NO REF SOV:  005                       OTHER:  000

Card  2/2

BOGDYL', P.T.; PRIGOROVSKIY, N.I.

Apparatus for determining strains and stresses with the use of optically sensitive coatings. Zav.lab. 29 no.12:1492-1494 '63.

(MIRA 17:1)

PRIGOROVSKY,N.I.  (Moscow)

" Experimental methods of three-dimensional stress analysis"

Report presented at the 2nd All-Union Congress on Theoretical
and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

VEBER, Izrail' Romanovich; LEVANDOVSKIY, Yevgeniy Ivanovich; LESHCHINSKIY,
    Aleksandr Aleksandrovich; NESTEROV, Viktor Petrovich; PRIGOROVSKIY,
    V.P., redaktor; VERINA, G.P., tekhnicheskiy redaktor

[Organizing the transportation of sugar beets by railroad] Organi-
zatsiia perevozok sakharnoi svekly po zheleznym dorogam. Moskva,
Gos. transp. zhel-dor. izd-vo,1956. 110 p.                (MLRA 9:10)
        (Sugar beets--Transportation)

BUKANOV, M.A.; PRIGOROVSKIY, V.F., redaktor; BOBROVA, Ye.N., tekhnicheskiy
redaktor

[Switchman's manual] Pamiatka strelochniku. Izd. 8-oe. Moskva, Gos.
transp. zhel-dor. izd-vo, 1956. 41 p.                    (MLRA 9:11)
(Railroads--Switching--Handbooks, manuals, etc.)

PRIGOROVSKIY, V.F.

Some problems concerning the technological and economic effectiveness
of automatic systems. Avtom., telem. i sviaz. 9 no.1:14-15
Ja '65.
(MIRA 18:2)

1. Nachal'nik otdela Planovo-ekonomicheskogo upravleniya
Ministerstva putey soobshcheniya.

GAVRILYUK, A.D.; YANKOVSKIY, V.I.; PRIGOROVSKIY, V.F., redaktor; BOBROVA, Ye.,
tekhnicheskiy redaktor

[The practices of train dispatchers in the Soloychegodsk division of
the Pechora Railroad] Opyt roboty poezdnykh dispetcherov Sol'vyche-
godskogo otdeleniia Pechorskoi dorogi. Moskva, Gos. transp.zhel-dor.
izd-vo, 1956. 32 p.                                     (MLRA 10:1)
          (Railroads--Train dispatching)

BARKAN, Isaak Naumovich; PRIGOROVSKIY, V.F., redaktor; BOBROVA, Ye.N.,
tekhnicheskiy redaktor

[Preparing railroad cars for transporting food products; experience
of the Odessa line] Podgotovka vagonov dlia perevozki prodovol'stven-
nykh gruzov; opyt Odesskoi dorogi. Moskva, Gos. transp. zhel-dor.
izd-vo, 1957. 37 p.                                        (MLRA 10:4)
                    (Railroads--Freight cars)

NIKITIN, Vladimir Dmitrieyvich; MEL'NIK, Aleksandr Lukich; ZABELLO, Mariya
      L'vovna; DLUGACH, Boris Abramovich; GOL'DENTUL, Boris Aronovich;
      PRIGOROVSKIY, V.F., red.; KHITROV, P.A., tekhn.red.

[Marshaling yards of railroads in other countries] Sortirovochnye
stantsii zarubezhnykh zheleznykh dorog. Moskva, Gos. transp.
zhel-dor. izd-vo, 1957. 174 p.                         (MIRA 11:5)
        (Railroads--Hump yards)

TIKHOMIROV, Ivan Georgiyevich, prof.;PRIGOROVSKIY, V.F., inzh., red.;
    BOBROVA, Ye.N., tekhn. red.

[Technological principles in the operation of sectional and
classification yards] Osnovy tekhnologii raboty uchastkovykh i
sortirovochnykh stantsii. Moskva, Gos. transp. zhel.-dor. izd-vo,
1958. 183 p.                                              (MIRA 11:9)

1. Belorusskiy institut inzhenerov zheleznodorozhnogo transporta
(for Tikhomirov).
                        (Railroads--Yards)

AKSENOV, Ivan Yakovlevich, kand. tekhn. nauk; PRIGOROVSKIY, V.F.,
        red.; VERINA, G.P., tekhn. red.

        [Organization and management of freight transportation on
        railroads abroad] Regulirovanie perevozok na zarubezhnykh
        zheleznykh dorogakh. Moskva, Gos. transp. zhel-dor. izd-vo,
        1958. 179 p.                                    (MIRA 15:3)
                        (Railroads--Freight)

POVOROZHENKO, Vladimir Vasil'yevich, professor; PRIGOROVSI'', V.P., i       er,
redaktor; KHITROV, P.A., tekhnicheskiy redaktor.

[Speeding up the movement of railroad cars] Uskorenie oborota vagonov.
Moskva, Gos.transp.zhel-dor.izd-vo, 1955. 246 p.                    (MLRA 9:5)
(Railroads--Traffic)

FEDOSEYEV, Sergey Afanas'yevich; PRIGOROVSKIY, V.F., redaktor; VERINA, G.P.,
tekhnicheskiy redaktor

[Efficient ways of loading lumber] Ratsional'nyi sposob pogruzki
lesomaterialov. Moskva, Gos.transp.zhel-dor. izd-vo, 1956. 38 p.
(MLRA 9:6)

(Lumber--Transportation)

CHUVASHIN, Aleksandr Petrevich; PRIGOROVSKIY, V.P., inzhener, redaktor;
VERINA, G.P., tekhnicheskiy redaktor.

[Work practice in escorting trains] Opyt soprovezhdeniia poezdov.
Moskva, Ges.transp.zhel-der. izd-vo, 1956. 15 p.       (MLRA 9:6)

1.Glavnyy konduktor Slavyanskogo konduktorskogo reserva Donetskoy
dorogi (for Chuvashin).
                    (Railroad conductors)

SMIRNOV, Petr Alekseyevich; PRIGOROVSKIY, V.F., inzhener, redaktor;
KHITROV, P.A., tekhnicheskiy redaktor.

[Manual on safety measures for railroad switchmen] Pamiatka po
tekhnike bezopasnosti strelochniku. Izd. 3-e. Moskva, Gos.transp.
zhel-dor.izd-vo, 1956. 50 p.                          (MIRA 9:6)
            (Railroads--Safety measures)

*PRiGoROVSKiy V.F.*

KOGAN, Liber Ayzikovich; PRIGOROVSKIY, V.F., red.; KHITROV, P.A., tekhn.red.

[Containers used for railroad transportation in foreign countries]
Konteinernye perevozki na zarubezhnykh zheleznykh dorogakh. Moskva,
Gos. transp.zhel.-dor. izd-vo, 1957. 156 p.                (MIRA 11:4)
        (Railroads--Freight)

PRIGOROVSKIY, V.F.

BERNGARD, K.A., kandidat tekhnicheskikh nauk; PRIGOROVSKIY, V.F.,inzhener, redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor.

[Making up long-distance through freight trains] Tekhnicheskaia marshrutizatsiia zheleznodorozhnykh perevozok. Moskva, Gos.transp. zhel-dor.izd-vo, 1956. 242 p. (Moscow. Vsesoiuznyi nauchno-issledo- vatel'skii institut zheleznodorozhnogo transporta. Trudy, no.119)
(MIRA 10:1)

(Railroads—Making up trains)

SIMONOV, Kirill Stepanovich, kandidat tekhnicheskikh nauk; PRIGOROVSKIY,
V.I., inzhener, redaktor; KANDYKIN, A.Ye., tekhnicheskiy redaktor

[Manual for make-up crews] Pamiatka sostavitel'skoi brigade. Izd.
2-oe, dop. Moskva, Gos. transp. zhel-dor. izd-vo, 1956. 82 p.
(MLRA 10:1)

(Railroads--Making up trains)

L 26693-66    EWT(d)    IJP(c)

ACC NR:    AP6016906                           SOURCE CODE:   UR/0042/65/020/005/0231/0236

AUTHOR:  Prigorskiy, V. A.

ORG:  none

TITLE:  Certain classes of bases for Hilbert space

SOURCE:  Uspekhi matematicheskikh nauk, v. 20, no. 5, 1965, 231-236

TOPIC TAGS:  Hilbert space, mathematic space

ABSTRACT:   Two sequences $\{\psi_j\}_1^\infty$ and $\{\phi_j\}_1^\infty$ in a separable Hilbert space H are said to be p-close $(0 < p \leq \infty)$ if

$$\sum_{j=1}^\infty \| \psi_j - \phi_j \|^p < \infty.$$

The author studies a number of classes of bases (for Hilbert spaces) that are p-close to orthonormal, making certain additions to work by M. G. Kreyn, whose methods are systematically used throughout the article. The author thanks I. Ts. Gokhberg and A. S. Markus, under whose leadership this work was completed. Orig. art. has:  17 formulas.  [JPRS]

SUB CODE:  12  /  SUBM DATE:  27Sep63  /  ORIG REF:  008

Card  1/1    BKG                                      UDC:  517.5

SADIKOV, P.P.; ANAN'YEVA, S.A.; LEBEDEVA, T.P.; SMIRNOV, Ye.K.; PRIGOROVSKIY,
V.F.,inzh.,red.; TISHKOV, L.B.; KATOLICHENKO, V.A.; PANIN; A.V.;
NOSKOV, Yu.A.; TRIFONOVA, M.G.; KLEYMENOV, Ye.I.; BOBROVA, Ye.N.,
tekhn.red.

[Technical equipment for large general-purpose freight yards]
Tekhnicheskoe osnashchenie krupnykh gruzovykh stantsii obshchego
pol'zovaniia. Moskva, Gos.transp.zhel-dor izd-vo. 1958. 186 p.
(Moscow. Moskovskii institut inzhenerov zheleznodorozhnogo
transporta. Trudy, no.161)                          (MIRA 12:2)
          (Railroads--Yards--Equipment and supplies)

PRIGOSHANSKAYA, L.I.

"Independent work of students in human anatomy and physiology
lessons" by E.A.Sokolova. Reviewed by L.I.Prigoshanskaia.  Biol.
v shkole  no.4:91-92  Jl-Ag  '63.                          (MIRA 16:9)
              (ANATOMY, HUMAN—STUDY AND TEACHING)
              (PHYSIOLOGY—STUDY AND TEACHING)
                  (SOKOLOVA, E. A.)

FRIGOSHANSKAYA, L.I., uchitel'nitsa

Acquiring practical skills in the fifth grade botany classes.
Biol. v shkole no.5:26-30 S-O '62.                    (MIRA 16:2)

1. Shkola No.98 Moskvy.
                    (Botany—Study and teaching)

PRIGOZHAYA, M.G.,inzh.

Data on turning dynamics of the DT-54 tractor. Mekh. i elk. sots.
sel'khoz. 15 no.2:23-25  '58.                                         (MIRA 11:5)

1. Moskovskaya ordena Lenina sel'skokhozyaystvannaya akademiya imeni
K.A. Timiryazeva.
          (Caterpillar tractors)

PRIGOZHENKOV, A.A., otv.za vypusk; ALEKSEYEV, V.I., red.izd-va;
YERMAKOVA, T.T., tekhn.red.

[Sailing schedule from the Moscow Northern River Station for
1960] Raspisanie dvizheniia sudov ot Moskovskogo Severnogo
rechnogo vokzala na 1960 god. Moskva, Izd-vo "Rechnoi transport,"
1960. 71 p.
(MIRA 13:6)

1. Russia (1917- R.S.F.S.R.) Ministerstvo rechnogo flota.
   (Moscow River--Inland water transportation)

PRIGOZHIN, B.S.

Preparing the leather substitute "prima." B. Prigo-
zhin. Kozhevenno-Obuvnaya Prom. S. S. S. R. 12, 510-14
(1933).—It was attempted to imitate a leather substitute
of the composition: H₂O 13.05, ash 1.32, saponifiable fat
4.42, unsaponifiable fat-like matter 0.54, total residue
from water extn. 13.34, hide substance 34.90, sol. rubber
12.31, free S 0.22, insol. rubber 7.34 and substances com-
bined with tannides 12.06%. A dispersion of rubber was
obtained by plastification with fat and rosin soaps in
addn. to clay. Cuttings of chrome-tanned leather were
incorporated and the rubber was coagulated on the leather
fiber at $p_H$ 7-8. A protective colloid (for example an alk.
soln. of casein or a dextrin soln.) was used. The coagulant
was alum or Al₂(SO₄)₃. The $p_H$ of the medium was
maintained by adding rosin soap. The leather fiber was
further tanned with a chrome soln. of 40-2% Schorlemmer
basicity. This was followed by neutralization with hypo-
sulfite because of the S precipitating on the tissue and the
possibility of using this S in the vulcanization to follow.
The fat-liquoring was carried out with sulfonated oils
because of a better adhesion. In addn. to leather fiber,
hemp or flax, depending on the intended use, may be
added to the compn. The vulcanization of this leather
substitute did not seem to affect its properties.

A. A. Boehtlingk

ASM-SLA    METALLURGICAL LITERATURE CLASSIFICATION

PRIGOZHIN, B.S.

PROCESSES AND PROPERTIES INDEX

13

Leather substitutes. B. S. Prigozhin and G. I. Brey. Russ 51,883, April 30, 1889. A mixt. of leather fibers from vegetable and chrome tanning is ground in the wet state so as to make the fibers from the chrome tanning absorb tannins washed out during the grinding process from the red-tanned waste.

A S M - S L A   METALLURGICAL LITERATURE CLASSIFICATION

PRIGOZHIN, B.S.

CA

29

The treatment of (leather) shavings of the chrome-tanning process. B. S. Prigozhin and G. I. Bren. (*Obmen Opytom* "*Glavkozhsuazmenild*" 1939, No. 3, 22 5; *Khim. Referat. Zhur.* 1939, No. 12, 110. —For the production of artificial-leather insoles from shavings of leather of combination Cr-tanning, addnl. $Cr_2O_3$ is required. With content of $Cr_2O_3$ in the shavings of approx. 1% it is sufficient to add an addnl. 20% of $Cr_2O_3$ (on the wt. of the dry shavings). A suitable method for tanning has been developed.

W. D. Henn

ASM-SLA    METALLURGICAL LITERATURE CLASSIFICATION

PRIGOZHIN, B.S.
'CA

/3

Insoles of synthetic material.  B. S. Prigozhin and G.
I. Bren.  *Kozhevenno-Obuvnaya Prom.* 18, No. 9, 28-31
(1939).  Chrome-tanned leather shavings are sorted,
washed, sand-cleaned, dried, ground in two stages,
neutralized with NaHCO₃ and treated with a soln. of
vegetable tanning material.  The product is greased,
dyed, mixed with a rubber dispersion and milled.

A. A. Rochtlingk

PRIGOZHIN, B.S.

Ca

25

**Waterproofing of fabrics.** B. S. Prigozhin. *Lekaya Prom.*, 1946, No. 9/10, 20.—According to Brit. 575,740, 575,675, and 575,686 the material is first placed in an atm. of org. Si halides and then treated with NH₃ to neutralize the acid formed. Water repellency can be attained also by treating the fabric with liquid or dissolved alkyl, aryl, aralkyl, or alkaryl Si halides. The solvents (hydrocarbons, chlorohydrocarbons, ethers) must be inert with respect to the org. Si compds. The acid formed is removed by washing with water or by neutralizing with alkali. Fabrics treated with the mixt. SiCl₄ (0.8-07.2%) + SiMe₃Cl (90.2-2.8%) (vapor or soln.) acquire exceptionally high water resistance. Best results are obtained with a mixt. of equal parts of the components; it waterproofs asbestos, wood, cellophane, paper, cotton, linen, wool, and synthetic fibers. Vapor treatment is faster and cheaper.          W. R. Henn

TURETSKAYA, R.A.; GOLUBTSOV, S.A.; ANDRIANOV, K.A.; TSVANGER, T.A.;
       PRIGOZHIN, B.Yu.

Direct synthesis of ethylchlorosilanes.  Khim.prom.  no.1:18-20  Ja
'63.                                                 (MIRA 16:3)
                                (Silane)

S/064/63/000/001/002/007
B101/B186

AUTHORS:     Turetskaya, R. A., Golubtsov, S. A., Andrianov, K. A.,
Tsvanger, T. A., Prigozhin, B. Yu.

TITLE:       Direct synthesis of ethyl chlorosilanes

PERIODICAL:  Khimicheskaya promyshlennost', no. 1, 1963, 18 - 20

TEXT:  A method of directly synthetizing ethyl chlorosilanes in a
fluidized bed at 360 - 380°C, wherein ethyl chloride is caused to react
with a copper-silicon alloy was described by these authors in a series
of previous studies (DAN SSSR, 108, 465 (1956); ZhPKh, 35, 1496 (1962);
Izv. AN SSSR, OKhN, no. 10, 1788 (1962); ibid. no. 1, 87 (1963)). For
comparison, data of lab tests and experiments in a pilot plant with a
reaction vessel(of 300 mm diameter and a charge capacity of 250 kg alloy)
are given in the present paper. The above data were found to be con-
sistent except for the ethyl chlorosilane yield per hr and kg of contact
mass, this being 270 - 700 g in lab tests and 60 - 100 g in the pilot
plant. The difference is due to the longer contact time (approximately
20 sec) in the pilot plant. The percentage of the resulting mixture of
ethyl chlorosilanes is given in the following sequence:  head fraction;
Card 1/3

Direct synthesis of ethyl ...

S/064/63/000/001/002/007
B101/B186

$C_2H_5SiHCl_2$; $C_2H_5SiCl_3$; $(C_2H_5)_2SiHCl$; $(C_2H_5)_2SiCl_2$, and residue. The data of lab tests in method A are the following, contact mass of Cu-Si alloy containing 20 % Si: 0, 27, 20, 7, 37, 9; method B, addition of 27 - 28 % by volume of $H_2$ during the experiment: 3, 41, 16, 11, 18, 10; method C, addition of 20 - 23.5 % by volume of HCl during the experiment: 11, 49, 16, 4, 16, 6; method D, addition of alloy during the experiment: 2, 51, 18, 5, 16, 8, and method E contact mass Cu-Si alloy containing 10 % Si an promoted by 0.003 % Sb: 0, 14, 13, 9, 56, 8. For the pilot plant experiments, these data are 3, 22, 37, 0, 30, 8 for method A, 11, 42, 27, 0.13, 7 for method B, 3, 46, 27, 0, 17, 7 for method C, 3, 36, 30, 0, 20, 11 for method D, and 4, 20, 28, 0, 38, 10 for method E. The alloy promoted by Sb showed an increase in selectivity and in diethyl dichlorosilane yield, whereas the ethyl chloride consumption was 17 % lower. An HCl addition during the experiment inhibited considerably the formation of ethylene and ethane by dehydrochlorination of ethyl chloride. The synthesis of polyethyl siloxanes from ethyl chlorosilanes is compared with that from ethyl ethoxysilanes. In the first case, 3.2 t and in the second case 10.0 t of raw material is required per ton of liquid. The output of the apparatus per unit volume, calculated for $(C_2H_5)_2SiO$ is

Card 2/3

Direct synthesis of ethyl ...                S/064/63/000/001/002/007
                                             B101/B186

70 g/hr·l in the first case and 2.4 g/hr·l in the second case. Further improvements are possible by increasing the yield of diethyl dichloro- silane and by complete inhibition of the formation of dehydrochlorination products. There are 2 figures and 4 tables.

Card 3/3

KLIMENKO, A.; PRIGOZHIN, N.

Continuous industrial crews and business accounting in coal mines.
Sots. trud no.4:113-117 Ap '57.                    (MIRA 10:6)

1. Upravlyayushchiy trestom "Kospashugol'" (for Klimenko). 2. Nachal'
nik shakhty no.39/40 (for Prigozhin).
                    (Coal mines and mining)

SOV/137-58-8-16632

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 55 (USSR)

AUTHOR:    Prigozhin, N.B.

TITLE:    Utilization of Low-potential Heat in Alumina Plants (Ispol'-
zovaniye nizkopotentsial'nogo tepla na glinozemnykh zavodakh)

PERIODICAL:    Sb. materialov tekhn. inform. Gos. in-t po proyektir.
alyumin., magniyevykh i elektrodn. z-dov, 1957, Nr 1,
pp 39-45

ABSTRACT:    This is a review of the major energy losses in alumina pro-
duction.  Examination is made of possible methods of utilizing
the heat of the cake and the calcined alumina to heat the air as
they are emitted from rotary furnaces at 1200°C.  A descrip-
tion is presented of possible methods of employing the heat of
the waste gases of sintering and calcination furnaces at 200-
400° to produce steam by means of a high-boiling organic heat-
carrying mixture consisting of 76% of diphenyl and 24% of di-
phenyloxide, and to produce hot water.  A project for utilizing
the heat of steaming-battery cooling water in the return-solu-
tions steaming departments to heat incoming air in the furnace
Card 1/2    chambers of electrolysis departments is presented, and

SOV/137-58-8-16632

Utilization of Low-potential Heat in Alumina Plants

numerical indices of reduction in capital investments and operating costs when this heat is utilized are given. An analysis is presented of a method for employing the chemical energy of molecular bonds for the purpose of transferring low-potential heat to a heat carrier at industrially utilizable potential levels, this being the utilization of a solution of ammonium monohydrate and water as the working substance, combined with the use of a jet compressor.

V. Shch.

1. Aluminum oxide--Processing    2. Heat--Sources    3. Waste gases--Applications

Card 2/2

GULIY, V.M.;  SHENDAROVICH, D.Kh., brigadir sharoshechnogo bureniya
(Sokol'nyy rudnik);  BEKETOV, P.Ye.;  DZHEMARDZHIDZE, N.M.;
MOCHALIN, M.P.;  PRIGOZHIN, Ye.I., gornyy inzhener (Metalliche-
skiy rudnik);  POLISHCHUK, A.D.

Speeches by participants in a conference.  Gor.zhur. no.1:20-24
Ja '56.                                                    (MLRA 9:5)

1. Nachal'nik Proizvodstvenno-tekhnicheskogo otdela Dzhezkazgan-
skogo rudoupravleniya (for Dzhemardzhidze);  2. Nauchnyy sotrudnik
Instituta gornogo dela AN SSSR (for Mochalin);  3. Glavnyy
inzhener Ukrglavrudy (for Polishchuk);  4. Glavnyy inzhener
Bystrushinskogo rudnika (for Guliy);  5. Glavnyy inzhener Salair-
skogo rudnika (for Beketov).
               (Mining engineering) (Mining machinery)

Prigozhin, E.S.

4752. RESULTS OF EXPERIMENTAL WORK BY VUGI (ALL-UNION SCIENTIFIC RESEARCH COAL INSTITUTE) ON THE PRODUCTION OF NEW TYPES OF REINFORCED CONCRETE SUPPORT. Burshtein, M.A. and Prigozhin, E.S.   (Ugol (Coal, Moscow), Feb. 1956, (5-18).
(L).

Prigozhin, E. S.

2043. NEW INSTRUMENTS FOR MEASURING THE LOAD ON A SUPPORT. Prigozhin, E.B. and Levkovich, P.E. (Ugol (Coal, Moscow), Apr. 1955, 28, 29). Illustrated descriptions are given of the DD-2 and HSD-2 dynamometers for placing under mine supports. Loads up to 50 tons are indicated and recorded from the deflection of a steel diaphragm. (L).

PRIGOZHIN, Ye.A.

Pathohistology of the myocardium in the decompensation of cor pulmonale. Sbor.nauch.trud.TashGMI 22:25-31 '62.

(MIRA 18:10)

1. Kafedra patologicheskoy anatomii (zav. - prof. G.N.Terekhov) Tashkentskogo gosudarstvennogo meditsinskogo instituta.

PRIGOZHIN, Ye.S.; DENISOV, V.N.

Results of ground pressure measurements on the lining of
sewage conduits. Osn., fund. i mekh. grun. 5 no.4:16-18
'63.                                                    (MIRA 16:11)

PRIGOZHIN, Ye.S., kand.tekhn.nauk; DENISOV, V.N., inzh; LEBEDEV, N.A.,
        inzh.

Measurement of pressure on supports in permanent workings in soft
rock.  Shakht. stroi. 5 no.5:16-19 My '61.                (MIRA 14:6)

1.  TsNIIpodzemshakhtostroy.
                    (Mine timbering)

/

PRIGOZHIN, Ye.S., kand.tekhn.nauk

New equipment for underground construction.  Shakht. stroi. no.8:31-
32 Ag '60.                                                    (MIRA 13:11)
                    (Paris--Exhibitions)
            (Underground construction--Equipment and supplies)

PRIGOZHIN, E.S

# USSR.

10764* New Devices for Measuring the Load on a Mine
Shoring Support. Novye pribory dlia izmereniia nagruzki na
krep'. (Russian.) E. S. Prigozhin and P. E. Levkovich. Ugol',
1955, no. 4, Apr., p. 28-29.

Design of dynamometers with automatic recording. Drawings,
photograph.

PRIGOZHIN, V., inzhener.

Efficient method of starting cold engines more easily. Avt.
transp. 34 no.12:8-10 D '56.

(MLRA 10:2)

(Automobiles--Starting devices)

PRIGOZHIN, V. (Moskva)

Magnetic recorder units with motors from the "Ural" and "Kama" radio phonographs. Radio no.9:31 S '57.                    (MIRA 10:10)
            (Magnetic recorders and recording)

AUTHOR:       Prigozhin, V., Moscow      .                          107-9-20/53

TITLE:        Tape Recorder Accessory Units with Motors of the "Ural" and
              "Kama" Radio Record Player Combinations (Magnitofonniye pri-
              stavki s dvigatelyami ot radiol "Ural" i "Kama")

PERIODICAL:   Radio, 1957, # 9, p 31 (USSR)

ABSTRACT:         The operating of tape recorder accessory units "Volna" ...d
              "МП" types with "Ural", "Chayka" and "Kama" radio record play-
              er combinations requires a separate electric motor, since the
              accessory unit is not driven at the required speed by the mo-
              tor of the record player combination, because the rubber-covered
              idling roller is insufficiently pressed to the driving roller
              and disk at the speed of 78 rpm.
                  To eliminate the slipping, it is sufficient to replace the
              spring pressing the roller by a stronger one, to shorten it or
              to use two identical springs.
                  This method proved to be sufficient for the normal drive of
              the accessory unit.

AVAILABLE:    Library of Congress

Card 1/1

PRIGOZHIN, V., inzh.

Device for rapid heating of engines. Avt. transp. 38 no.9:19-20
S '60.                                                (MIRA 13:9)
        (Motor vehicles—Cold weather operation)

PRIGOZHIN, V.

Greater attention to young chauffeurs. Avt.transp. 32 no.1:31
Ja '54.                                           (MLRA 7:8)
        (Automobile drivers)

PRIGOZHIN, V.

A wonderful rack.  Za.rul.  18  no.6:22-23  Je  '60.  (MIRA 13:8)

1. Glavnyy inzhener avtobazy Sovetskogo rayona g. Moskvy.
(Motor vehicles--Cold weather operation)

PRIGOZHIN, Ye.I., gornyy inzhener;   RUDENKO, V.V., gornyy inzhener.

Testing data on the PSh-20 sinking perforator.  Gor.zhur. no.5:
25-26 My '56.                                      (MLRA 9:8)
                    (Rock drills)

BURSHTEYN, M.A., inzh.; PRIGOZHIN, Ye. S., kand. tekhn. nauk

Design of connecting elements for sectional reinforced-concrete supports. Krepl. gor. vyr.ugol'. shakht no. 1:117-132 '57.

(MIRA 11:7)

1. TSentrogiproshakht(for Burshteyn). 2. Giproshakhtostriymash(for Prigozhin).

(Mine timbering)
(Reinforced concrete construction)

PRIGOZHIN, Ye.S., kand.tekhn.nauk

Use of plastic sheets for air insulation in mines (from "Colliery
Guardian," no 5'22, 1961 and "Mining Equipment," no.4, 1961).
Shakht.stroi. 6 no.1:27-28 Ja '62.                (MIRA 14:12)
                        (Mine ventilation)
                        (Plastics)

PRIGOZHIN, Ye.S., kand. tekhn. nauk; DENISOV, V.N., inzh.

Results of studies of soil pressure on the casing of sewer
tunnels.  Trudy TSNIIPodzemshakhtstroia no.1:226-246  '62.

(MIRA 16:8)

(Rock pressure)     (Sewerage)

PRIGOZHIN, Ye.S., kand.tekhn.nauk

        Paris congress on rock pressure.  Shakht.stroi.  4
        no.9:29-32  S  '60.                    (MIRA 13:8)
                (Rock pressure—Congresses)

PRIGOZHIN, Ye.S.

Cardiac metastases in cancer of the mandible. Arkh. pat. 18 no.1:
113-114 '56.                                                    (MLRA 9:6)

1. Iz Almalykskoy gorodskoy bol'nitsy Tashkentskoy oblasti
(glavnyy vrach T.A. Agzamov)
        (HEART, neoplasms,
            metastatic from mandible (Rus))
        (MANDIBLE, neoplasms,
            metastatic to heart (Rus))

PRIGOZHIN, Yu.

       This is not art. Sov. foto 23 no.4:44 Ap '63.    (MIRA 16:5)
                            (Photographs)

PRIGOZHIN, Yu.

      Following the path of the daring.  Sov.foto  22  no.9:2-8  S
     '62.                                        (MIRA 15:8)
         (Photography--Exhibitions)  (Moscow--Exhibitions)

EXCERPTA MEDICA Sec.15 Vol.10/1 Chest Diseases Jan 57

246. PRIGOZHINA A. L. Helmholtz Inst. of Eye Dis., Moscow. *About the pathogenesis of intra-ocular tuberculosis (Russian text) ARKH. PATOL. 1955, 17/1 (29-35)

The changes in the eyes in different forms of tuberculosis were studied using pathological-anatomical material. The eyes of 67 cadavers (98 eyes) were investigated; the cases were primary, blood-stream disseminated and fibro-cavitary forms. In the primary form of tuberculosis, eye lesions were observed in 1/3 of the total; they were either non-specific or paraspecific in character, presenting as lymphocytic, lymphohistiocytic and macrophage nodules in the ciliaris, choroid and also as serous iridocyclitis with deposition of precipitates. In the blood stream disseminated tuberculosis form, specific foci were seen in the choroid in 50% of the cases: from histiolymphocytic miliary and submiliary nodules to large specific granulomas (sometimes with caseous breakdown) and calcified confluent tubercles. Vascular changes were seen in the choroid in the form of fibrinoid necrosis. In haematogenous disseminated tuberculosis the eye lesions were of a productive character. In the fibro-cavitary tb form, eye lesions were rarely seen and were of a non-specific character: lymphocytic nodules in the choroid and ciliaris and rarely in the form of lymphoid-epithelioid nodules. Specific lesions were nearly always bilateral. Tchenzova - Moscow (XII, 15)

*Prigozhina A.L.*

LEVKOYEVA, E.F., prof.; GOLUBEVA, K.I., starshiy nauchnyy sotrudnik;
       PRIGOZHINA, A.L., starshiy nauchnyy sotrudnik.

       Changes in verve tissue following experimental reflex increase in
       intraocular pressure.  Report No.2.  Oft.zhur. 13 no.2:67-70  '58.
                                                          (MIRA 11:4)

       1. Iz patologicheskogo otdeleniya (zav.-prof. E.F.Levkoyeva)
       Gosudarstvennogo nauchno-issledovatel'skogo instituta glaznykh
       bolezney im. Gel'mgol'tsa.
               (EYE)

PRIGOZHIN , VLADIMIR  BORISOVICH

SEROV, Aleksandr Vladimirovich; BAS, Lev Ruvimovich; YERMOLIN, Aleksey
    Ivanovich; PRIGOZHIN, Vladimir Borisovich; IVANITSKIY,S.Yu.,
    redaktor; PAPMEL',S.V., redaktor; MANINA,M.P., tekhnicheskiy re-
    daktor

[Working principle of a motorcycle]  Ustroistvo mototsikla. Izd.
2-oe. ispr.  Moskva, Gos.izd-vo "Fizkul'tura i sport," 1956. 350 p.
                    (Motorcycles)                    (MIRA 9:3)

PRIGOZHIN, Yu.

  The village theme in the art of Arkadii Shishkin. Sov.foto
  22 no.4:18-24 Ap '62.       (MIRA 15:4)
        (Photography, Journalistic)

USSR / Human and Animal Morphology - Sense Organs.                    S

Abs Jour  : Ref. Zhur. - Biol., No. 22, 1958, No. 101543

Author    : Prigozhina, A. L.
Inst      : State Scientific Research Institute of Eye
            Diseases.
Title     : Basic Argyrophilic Substance of the Conjunctiva
            and Cartilage in Resistant Forms of Trachoma in
            the Third Stage.

Orig Pub  : Uch. zap. i inform. metod. materialy. Gos. n.-i.
            in-t glazn. bolezney, 1957, No. 5, 61-66

Abstract  : Changes in the basic argyrophilic substance were
            studied in 33 patients with prolonged and resis-
            tant forms of the disease and in 40 patients with
            trachoma in the third stage.  There were changes
            in the colloidal state and structural changes in
            the external epithelial membrane, which is connected

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with atypical growth of epithelium and hypertrophy
of the papillary bodies.  Changes in the vascular
argyrophilic membranes of the conjunctiva lead to
changes in permeability, to disorders of tissues
metabolism, and to the development of hypoxia.
Changes in the glandular argyrophilic membrane in
the cartilage in the form of condensations and
fusions lead to changes in the tonus of the ducts
of the glands, to retention and degeneration of
the secretions, and to atrophy and death of the
glandular tissue.

Card 2/2

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VASIL'YEVA, N.N., kand. med.nauk; GOLUBEVA, K.I., kand. med. nauk;
GUL'KEVICH, Yu.V., prof.; DAL', M.K., doktor med.nauk,
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med.nauk, prof.; MASLOVA, I.P., kand. med.nauk; PRIGOZHINA,
A.L., kand. med.nauk; UGRYUMOV, B.P., prof.; SHATILOVA, T.A,
kand. med.nauk; SHCHEGLOVA, A.A., kand. med.nauk; DVIZHKOV,
P.P., prof., red. toma; STRUKOV, A.I., prof., red. toma;
OSTROVERKHOV, G.Ye., prof., glav. red.; APATENKO, A.K.,
kand. med. nauk, nauchn. red. toma

[Multivolume handbook on pathological anatomy] Mnogotomnoe
rukovodstvo po patologicheskoi anatomii. Otv. red. A.I.
Strukov. Moskva, Medgiz. Vol.1. [History of pathological
anatomy; pathological anatomy of the endocrine glands, skin,
ear, and eye] Istoriia patologicheskoi anatomii; patologi-
cheskaia anatomiia zabolevanii endokrinnykh zhelez, kozhi,
ukha i glaza. Red. toma: P.P.Dvizhkov i dr. 1963. 670 p.
                                    (MIRA 16:11)
1. Chlen-korrespondent AMN SSSR (for Strukov).
        (ANATOMY, PATHOLOGICAL)

USSR / Human and Animal Morphology - Sense Organs.          S

Abs Jour   : Ref. Zhur. - Biol., No. 22, 1958, No. 10516

Author     : Prigozhina, A. L.
Inst       : State Scientific Research Institute of Eye
             Diseases
Title      : The Sensory Innervation of the Trabecular Tissues
             of the Angle of the Iris.

Orig Pub   : Uch. zap. i inform. metod. materialy. Gos. n.-i.
             in-t glazni bolezney, 1957, No. 5, 215-218.

Abstract   : Descriptions are given of the receptor apparatus of
             the angle of the iris. The nerve network of this
             zone is formed of fibers originating from the higher
             nervous centers, and of fibers which are processes
             of local nerve cells. The strong afferent inner-
             vation of the area of the corneo-scleral boundary
             imparts a reflexogenic importance to this zone,

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Abs Jour  : Ref. Zhur. - Biol., No. 22, 1958, No. 101516

apparently in connection with the registration of
metabolic processes occurring in this area.  There
may be baroreceptors in this zone in connection
with the regulation of intra-orbital pressures.

Card 2/2

1210. THE BASIC ARGYROPHIL SUBSTANCE OF THE CONJUNCTIVA AND
THE CARTILAGE IN PERSISTENT FORMS OF STAGE III TRACHOMA
(Russian text) - Prigozhina A. I. - UCH. ZAP. I INFORM.-METOD.
MAT. INST. GLAZ. BOLEZ. IM. GELMGOLTSA (Moskva) 1957, 5 (61-66)

Coarse structural changes taking the form of hyperplasia and roughness of argyro-
phil fibres occur in trachoma; more rarely the fibres fuse, and homogeneous dark
coloured segments appear in the basic argyrophil substance. More profound
changes in the basic argyrophil substance take place in persistent forms of tra-
choma. In the follicle the framework of the argyrophil fibres acquires more or
less clear contours and disintegrates from the centre to the periphery during the
period of regression. In the infiltrates and follicles there are changes in the basal
membrane, which appear either in the form of interruptions or as less impregnated
parts. The disruption of the proper arrangement of the argyrophil fibres of the
basal membrane conduces to atypical growth of the epithelium and hypertrophy of
the papillary bodies. The argyrophil membranes of the small capillary vessels
and of the larger vessels are thickened and dense. This causes changes in vas-
cular permeability, impairment of tissue metabolism and the development of
hypoxia, which lead to collagenosis of the connective tissue of the conjunctiva.
Prior to their collagenic transition, the contours of the argyrophil fibres lose their
clarity, swell and become wider and grey in colour. In the further process they

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are permeated with collagen, and thicken. Finally, the connective tissue bundles are converted into denser fibrous bands with diminished cellular elements and atrophy of blood vessels. In some cases the fibrillary structure of the connective tissue is lost, and it acquires an amorphous homogeneous appearance. The argyrophil membranes which surround the lumina and lobules of the meibomian glands may undergo thickening or fusion. These changes lead to loss of tonus of the excretory ducts of the glands, retention and suppression of secretion, and subsequent atrophy and destruction of the glandular tissue.

(S)

SVERCHINSKIY, B.S.; MOLOKANOV, Yu.K.; NIKITINA, S.D.; PRIGOZHINA, L.D.

Determining the coefficients of relative volatility of com-
ponent pairs in a multicomponent mixture. Zhur. fiz. khim. 39
no.9:2117-2119 S '65.
(MIRA 18:10)

PRIGOZHINA, YE. L.

"Adenocarcinoma of the Womb, Experimentally Induced in Rats with Synestrol"

Arkhiv. Patol., II, No. 3, 1949.

Mbr. Lab. Oncology, Inst. Normal and Pathological Morphology, Dept. Mediso-Biol. Sci.,

Acad. Med. Sci, -1948-.

PRIGOZHINA, Ye.L.

Experimental cancer and precancerous changes of mammary gland of rats induced by sinestrol. E. L. Prigozhina (Inst. Normal and Pathol. Morphol., Acad. Med. Sci. U.S.S.R., Moscow). Arkh. Patol. 13, No. 2, 46-57(1951). —White rats (103 female and 49 male) were castrated at 3-4 weeks of age, and 1 month later 3 mg. of sinestrol in wax (30% conc. ) was introduced subcutaneously on the back of the rats. Rats (34 female and 15 male uncastrated) served as controls, which similarly received the sinestrol at the age of 1 month. The treatment with sinestrol was continued monthly for 10 months. The maximum survival time for all rats was 10.5 months, the uncastrated females succumbing sooner than the castrated ones, none of the latter surviving beyond 9 months. Males survived longer. After 1-3 months, hyperplasis of the mammary gland was noted. Of the 152 animals used 21 developed malignant mammary tumors in 4 months. Atypical proliferation of the epithelium of the gland had the characteristics of precancerous changes. As a rule, sinestrol initiates numerous loci of malignancy in the mammary gland; precancerous changes are generally observable in several locations simultaneously in the same animal. The exptl. production of malignancy of the mammary gland in animals by an estrogenic compd. (sinestrol) suggests a hormonal origin of the cancer of human mammary gland.                        J. A. Stekol

SHABAD L. M., PRIGOZHINA E. L.

Izmeneniia, eksperimental'no vyzvannye povtornoi beremennost'iu
bez laktatsii v molochnykh zhelezakh myshei nerakovoi linii.
/Modifications experimentally induced by repeated pregnancy with-
out lactation in mammary glands of noncancerous strain of mice./
Arkh. Pat., Moskva 12:3  May-June 50   p. 43-6.

1.  Of the Laboratory of Oncology (Head—Corresponding Member
    AMS USSR Prof. L. M. Shabad) of the Institute of Normal and
    Pathological Morphology (Director—Academician A. I. Abrikosov)
    of the Academy of Medical Sciences USSR, Moscow.

    CLML 19, 5, Nov 50

PR IGOZHINA, YE. L.

PRIGOZHINA, Ye.L.

Changes in the anterior pituitary produced with massive doses of sinestrol. Trudy AMN SSSR 21 no.4:186-192 '52.          (MIRA 10:8)

1. Iz laboratorii onkologii (zav. - chlen-korrespondent AMN SSSR prof. L.M.Shabad) Instituta normal'noy i patologicheskoy morfologii AMN SSSR (dir. - akademik A.I.Abrikosov)
          (PITUITARY GLAND, ANTERIOR, effect of drugs on,
               estrogens)
          (ESTROGENS, effects,
               on pituitary gland, anterior)

Mikhailov, M. L.

"Relating to Experimental Fibroadenoma of the Mammary Glands"
Tr. Akad. Med. Nauk SSSR, Morfoly Onkologii, 1954, 25, 197, pp 1-20

During experiments with one-month-old rats, two females were castrated
before the experiments had started. Once a month a paraffin and lanolin
"pill" containing one milligram of synestrol was introduced beneath the
skin. Four out of 24 (16.6 percent) developed fibroadenomas of the
mammary glands. All the ulcers were located near large excretory chan-
nels in which epithelial cells were found coming from the fibrous chan-
nel walls. Glandular elements were distributed in the fibrous stroma.
In the mammary glands of rats which had received synestrol, cystic mas-
topathy was found. Scattered through the large fibroadenoma were small
and large cysts. At the location of the tumor itself the cells were
atypical, connecting with neighboring cysts: fibroadenomas on top of
cystocarcinomas. (RanBiol, No 2, 1954)

So: Sum. 462, 12 May 55

KHUSHINSKIY, L.V.; MOLODKINA, L.N.; PRIGOZHINA, Ye.L.; SHABAD, L.M.

Study of the role of neural trauma on malignant tumors. Zhur.vys.
verv.deiat. 4 no.6:877-881 N-D '54.                    (MLRA 8:7)

1. Kafedra vysshey nervnoy deyatel'nosti biologo-pochvennogo fakul'-
teta Moskovskogo gosudarstvennogo universiteta.
        (NERVOUS SYSTEM, physiology,
            eff. of inj. on exper. cancer)
        (NEOPLASMS, experimental,
            eff. of nervous system inj.)

PRIGOZHINA, Ye.L.

Possibility of detecting in rats a malignancy factor separable from tissue in mammary carcinoma produced with synestrol. Biul. eksp. biol. i med. 37 no.6:52-55 Je '54.                    (MLRA 7:8)

1. Iz laboratorii eksperimental'noy onkologii (zav. chlen-korres- pondent AMN SSSR prof. L.N.Shabad) Instituta onkologii (dir. chlen- korrespondent AMN SSSR prof. A.I.Serebrov) AMN SSSR.
          (NEOPLASMS, experimental,
               mouse mammary carcinoma, possibility of detection of
               separate from tissue malignancy factor)

ARDASHNIKOV, S.N.; PRIGOZHINA, Ye.L.; SPASSKAYA, I.G.

Irradiating the milk factor with massive doses of roentgen and gamma
rays with the purpose of discovering its blastogenic properties. Vop.
onk. 1 no.6:71-74 '55.                                        (MLRA 10:1)

1. Iz laboratorii eksperimental'noy onkologii AMN SSSR (zav. - chlen-
korrespondent AMN SSSR prof. L.M.Shabad)
        (BREAST, neoplasms,
            milk factor, eff. of gamma-& x-irradiation on carcinogenic
            properties (Rus))
        (NEOPLASMS, experimental,
            milk factor, eff. of gamma-& x-irradiation on carcinogenic
            properties (Rus))
        (RADIATIONS, effects,
            gamma rays on milk factor carcinogenesis (Rus))
        (ROENTGEN RAYS, effects,
            on milk factor carcinogenesis (Rus))